

FIG. 1A

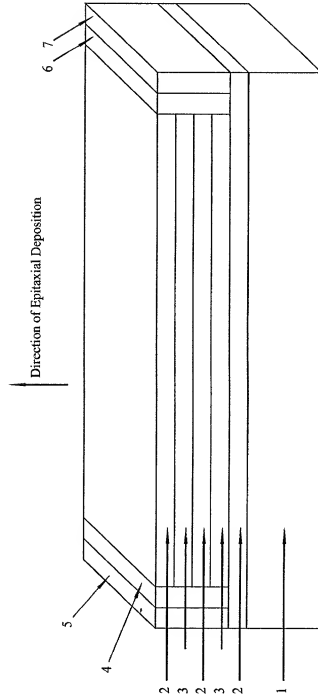


FIG. 1B

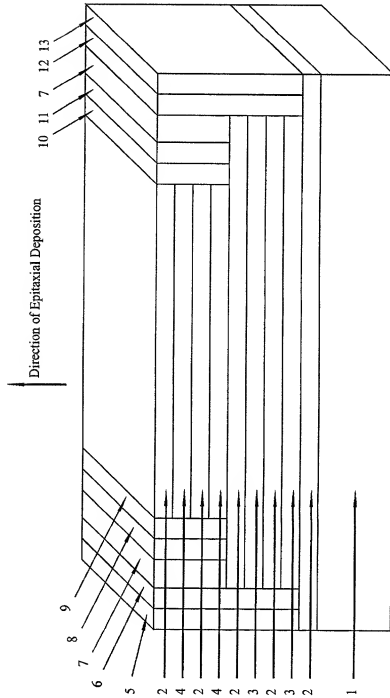


FIG. 2B

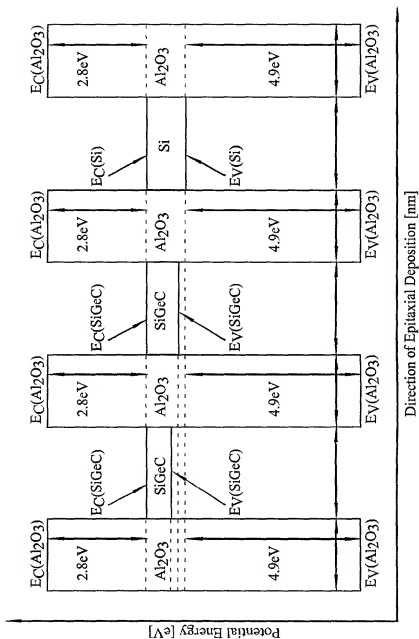
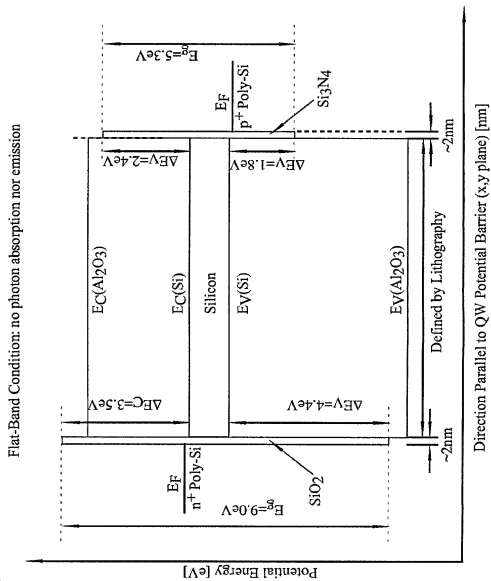


FIG. 2C



TOP SECRET - CONFIDENTIAL

FIG. 2D

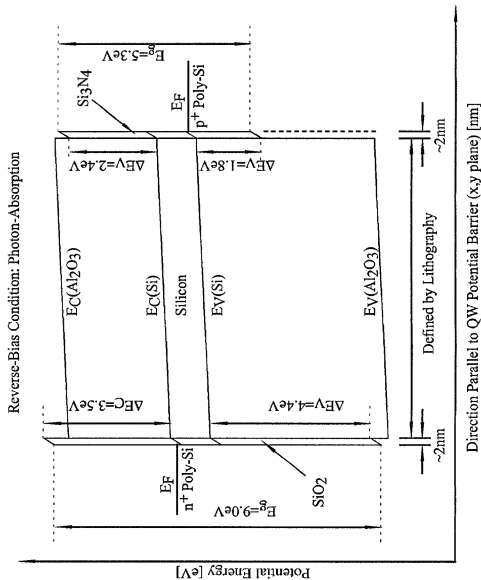


FIG. 3A

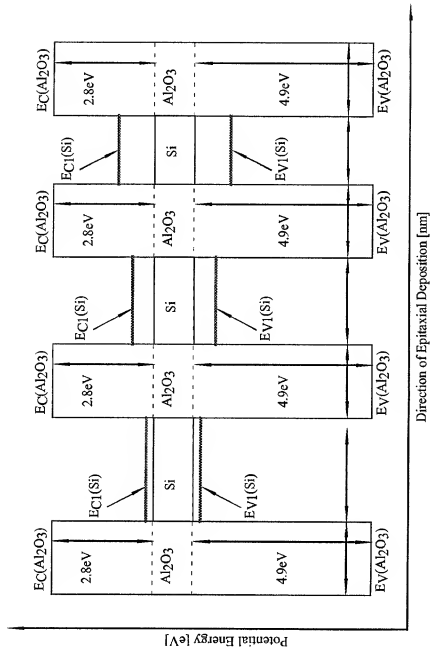


FIG. 3B

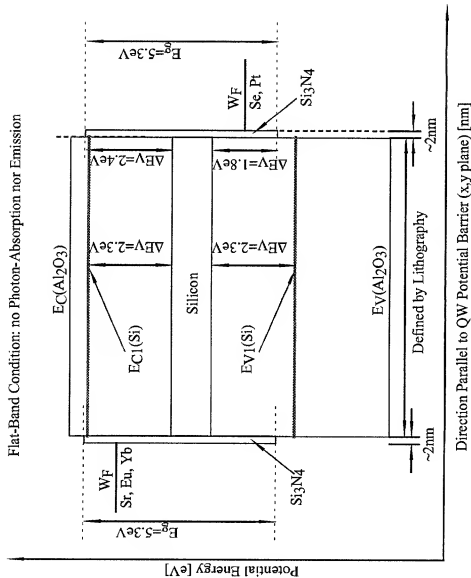
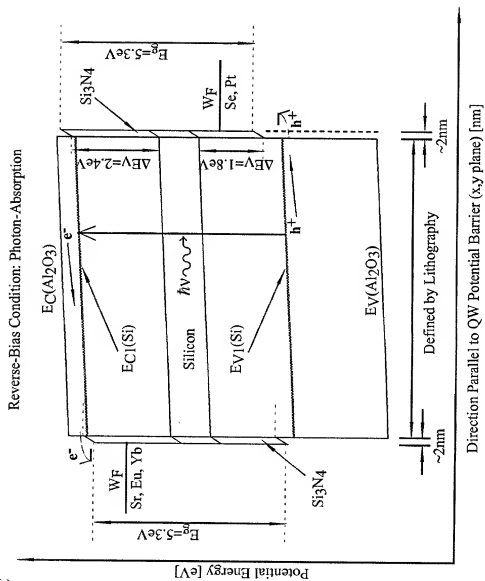


FIG. 3C



Forward-Bias Condition: Photon-Emission

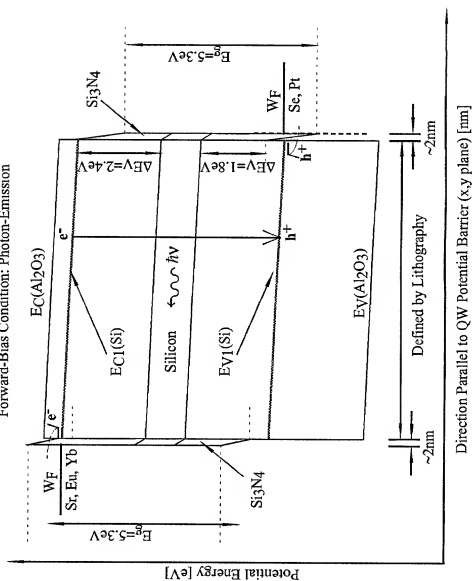
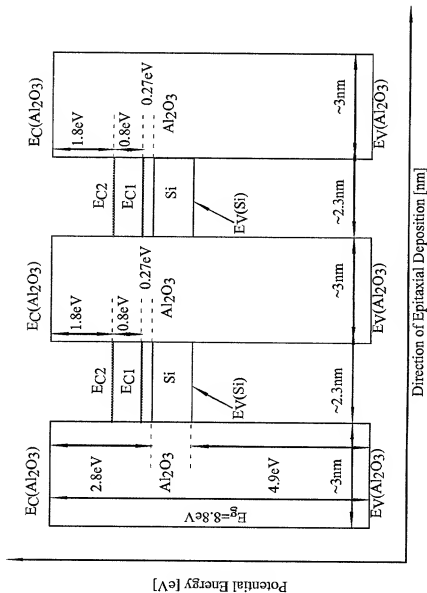


FIG. 4A



Flat-band condition: no Photon-Absorption nor Emission

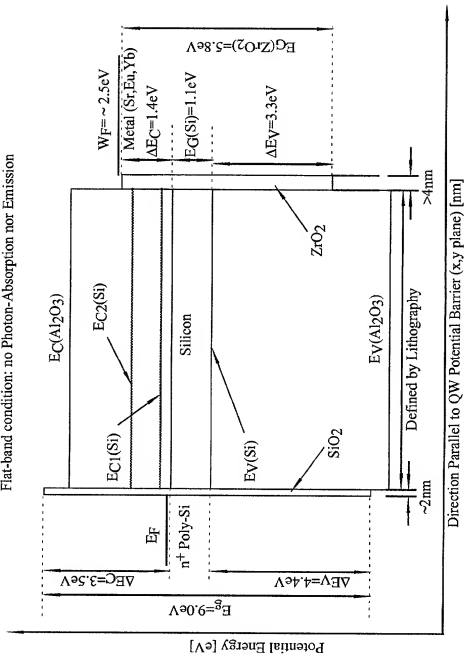
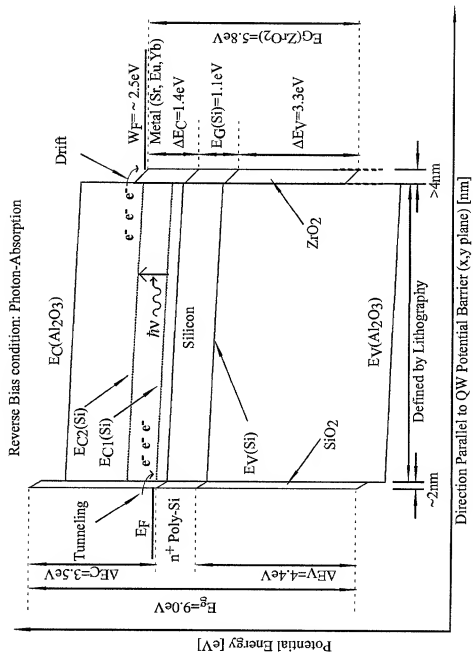


FIG. 4C



Forward Bias condition: Photon-Emission

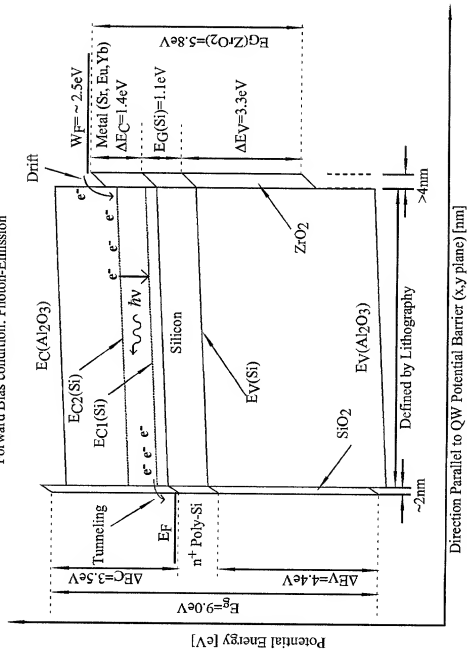


FIG. 5A

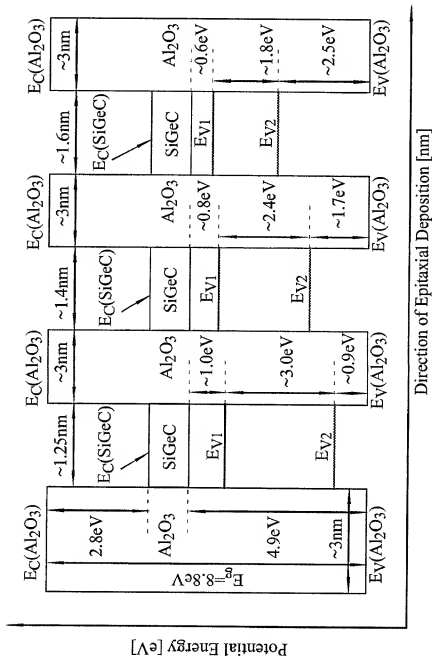


FIG. 5B

FIG. 5B

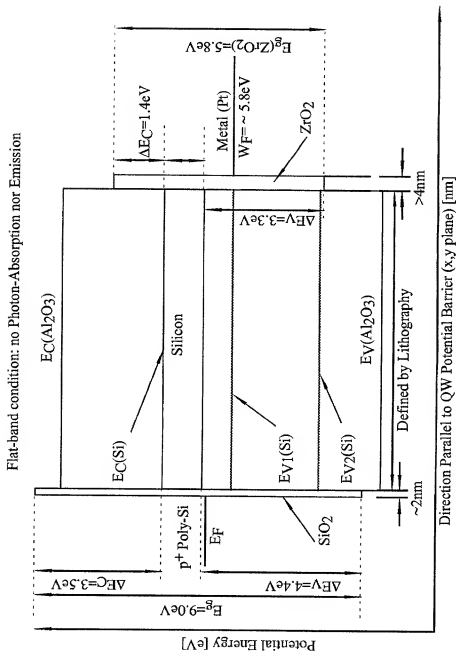


FIG. 5C

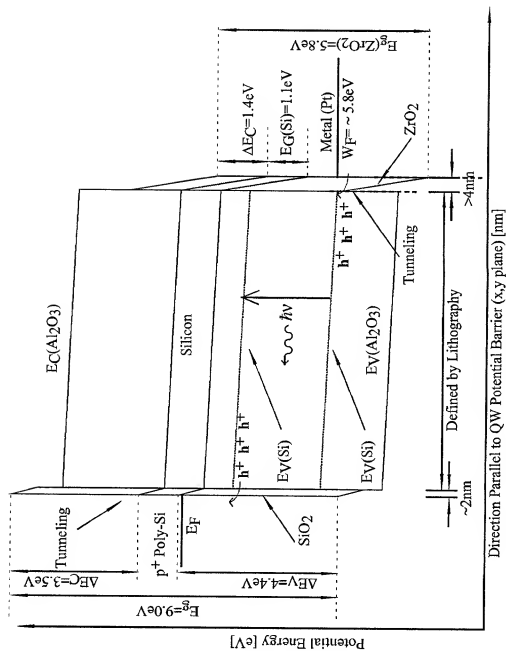


FIG. 5D

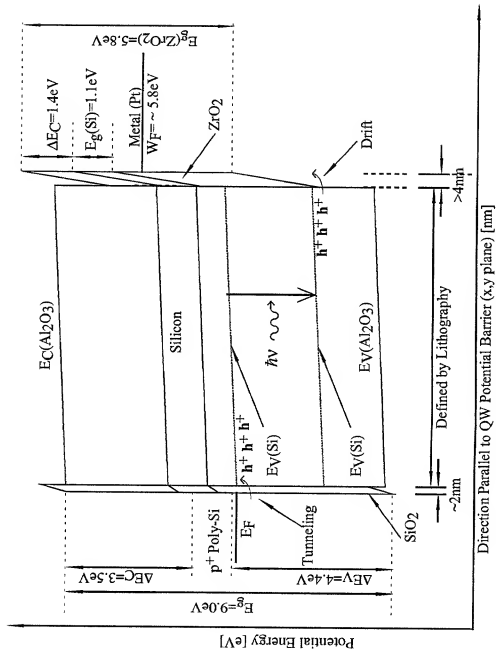
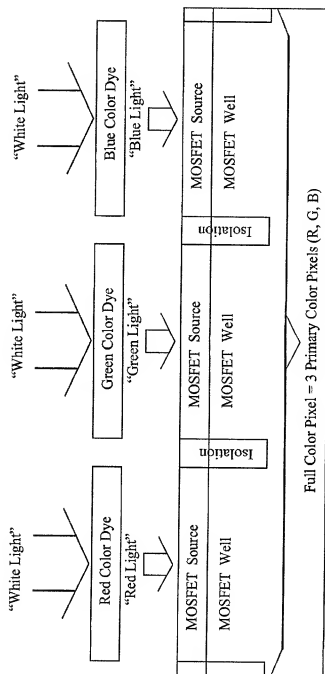


FIG. 6

Prior Art



“Light”

Left Side Contacts

Right Side Contacts

Insulator

IBT Filter for UV

Insulator

IBT Filter for UV $< \lambda < \text{Blue}$

Insulator

IBT Filter for Blue

Insulator

IBT Filter for Blue $< \lambda < \text{Green}$

Insulator

IBT Filter for Green

Insulator

IBT Filter for Green $< \lambda < \text{Red}$

Insulator

IBT Filter for Red

Insulator

IBT Filter for Red $< \lambda < \text{IR}$

Insulator

IBT Filter for IR/FIR

Insulator

Silicon Wafer

FIG. 7B

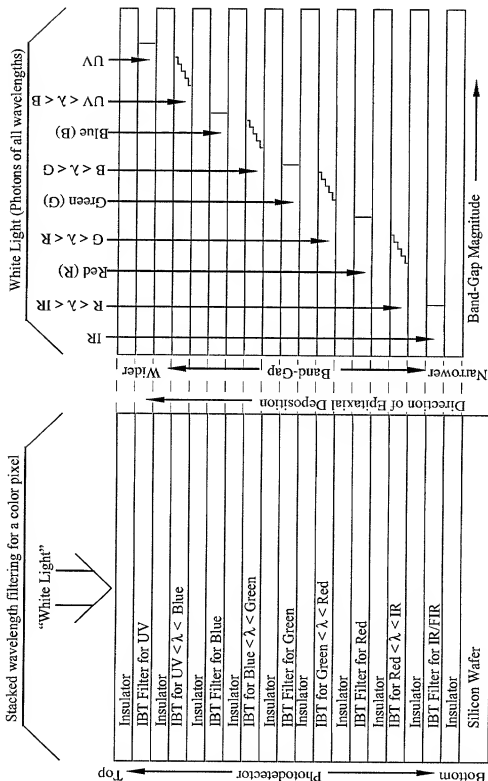


FIG. 7C

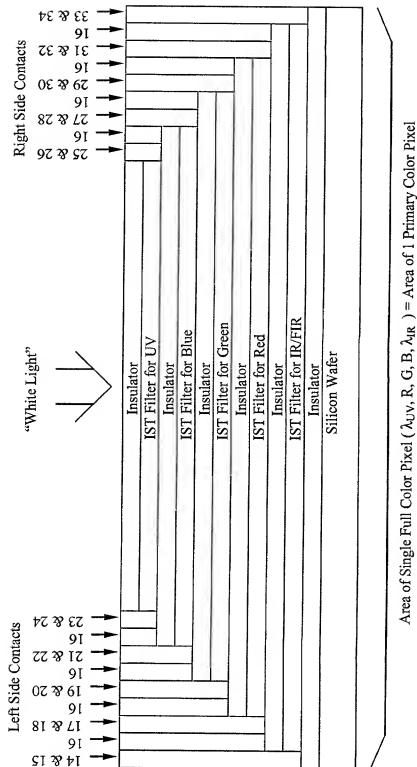


FIG. 7D

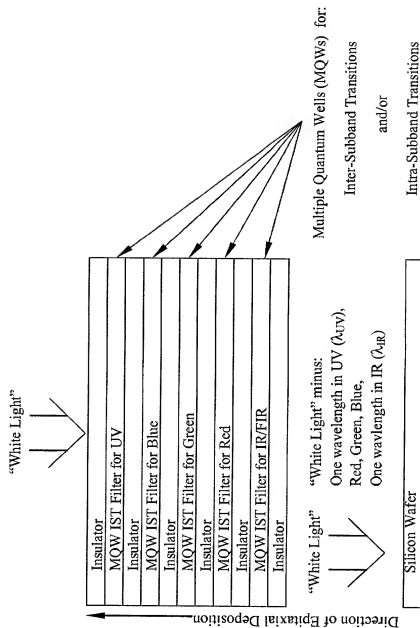


FIG. 8A

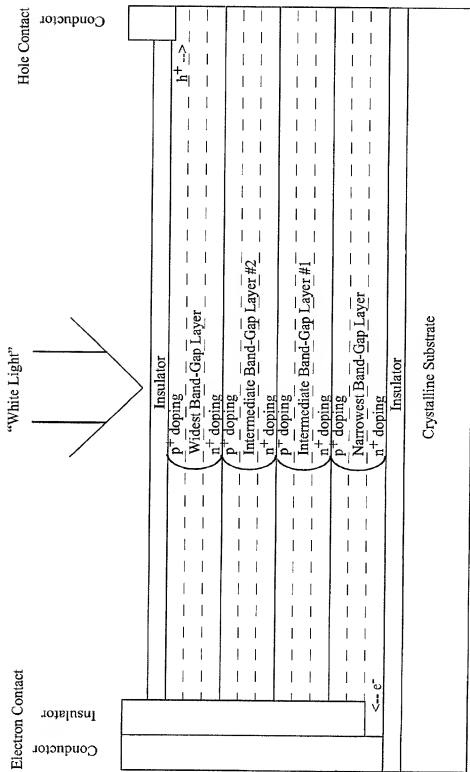
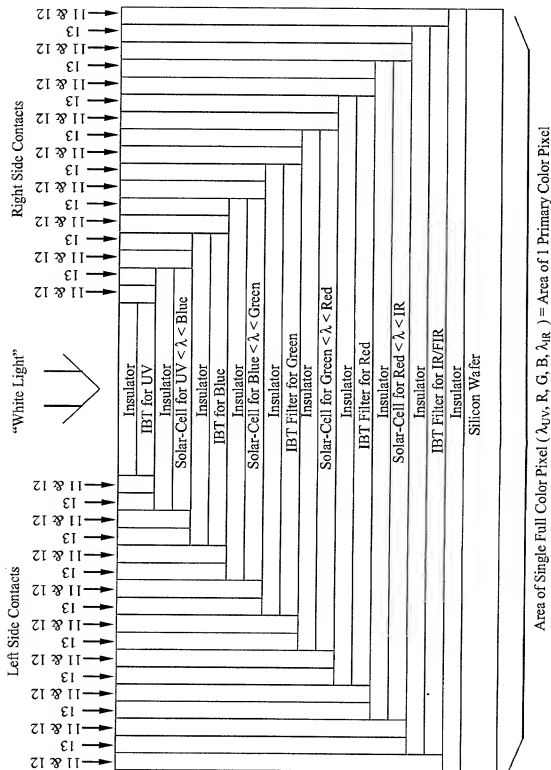


FIG. 8B

FIG. 8B



Area of Single Full Color Pixel (λ_{UV} , R, G, B, λ_{IR}) = Area of 1 Primary Color Pixel

FIG. 8C

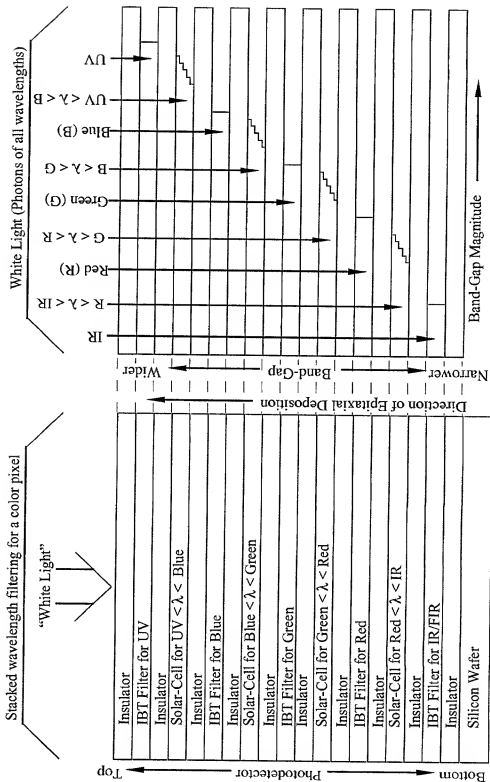


FIG. 8D

FIG 8D

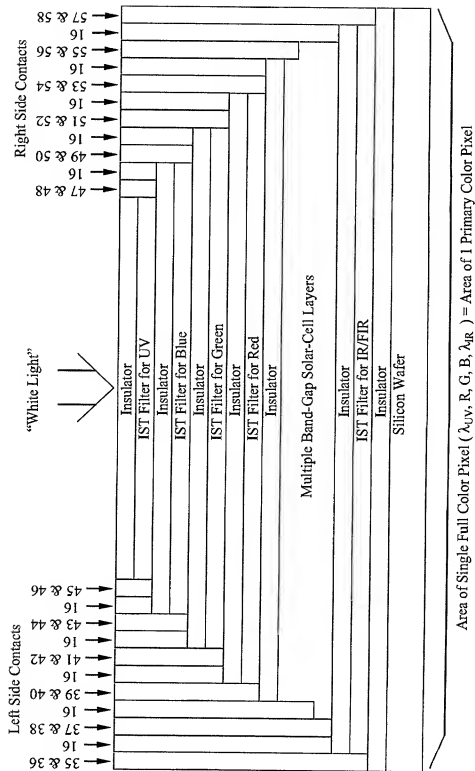


Figure 8E

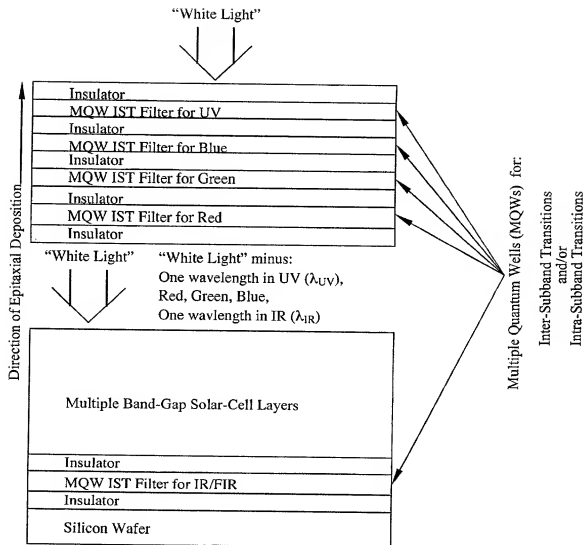


FIG. 9A

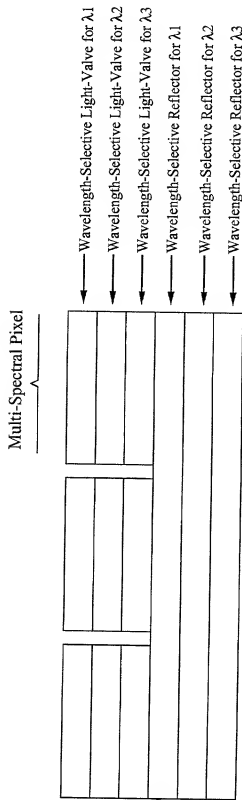


FIG. 9B

